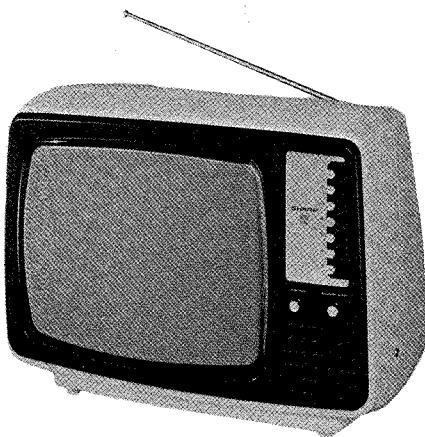




Service Manual



Solid State Portable TV

MODEL 12P-26

SPECIFICATIONS

Power Supply 220 Volts 50Hz AC or 12 Volts DC
Power Consumption 36 Watts AC
16 Watts DC
Tuning Range CCIR Standard System
VHF Channel 2 ~ 12
UHF Channel 21 ~ 69
Intermediate Frequency Picture 38.9 MHz
Sound 33.4 MHz
Antenna Input Impedance 75 ohms Unbalanced
Intercarrier Sound System 5.5 MHz
Speaker Size & Type 32 ohm 8cm Round Type P.D.S.
Dimensions Approx. 15-63/64" (W) x
11-25/32" (H) x 11-5/8" (D)
Weight 17.2 lbs.

Transistor Complement

Q1 2SC1070 or 2SC761 UHF RF Amp.
Q2 2SC288 or 2SC684 UHF Oscillator
Q101 2SC606 or 2SC683 (B) VHF RF Amp.
Q102 2SC535 (B) VHF Mixer
Q103 2SC535 (B) VHF IF Amp.
Q104 2SC717 VHF Oscillator
Q105 2SC606 UHF IF Amp.
Q201 2SC682 (A) or 2SC398 1st Pix IF Amp.
Q202 2SC682 (A) or 2SC398 2nd Pix IF Amp.
Q203 2SC717 or 2SC383 3rd Pix IF Amp.
Q401 2SC458 (C) Audio Amp.
Q402 2SC1213 (C) Audio Output
Q403 2SA673 (C) Audio Output
Q601 2SC458 (C) Vertical Oscillator
Q602 2SC1213 (D) Vertical Drive
Q603 2SC1162WT (C) Vertical Output
Q604 2SA715WT (C) Vertical Output
Q701 2SC1213 (C) Horizontal Drive
Q702 2SC681A Horizontal Output
Q801 2SC454 (C) or 2SC380A (Y) 1st Video Amp.
Q802 2SC1514 or 2SC1569 2nd Video Amp.
Q101 2SC1213 (C) +B Error Amp.
Q902 2SA616 (2) +B Regulator

Diode Complement

D1 1S1555 UHF AGC Delay
D2 1S1555 UHF Protector

D3	1SS16 or 1S1926	UHF Mixer
D4, D5, D6	1S2208 or BB105B	UHF Tuning
D7	WZ-081	UHF Voltage Regulator
D101, D102	1S2588	VHF Switching
D103	1S2209 or BB105G	VHF Tuning
D104	1S1555	VHF Protector
D105	1S2209 or BB105G	VHF Tuning
D106, D107	1S2588	VHF Switching
D108, D109	1S2209 or BB105G	VHF Tuning
D110	1S2588	VHF Switching
D111, D112	1S1555	VHF Switching
D201	1N60	Pix IF Detector
SR601, SR602	RH-DX0033TAZZ	Vertical Circuit
SR701	RH-DX0057TAZZ	Damper
SR702	RH-DX0056TAZZ	Boost
SR703	RH-DX0063CEZZ	Horizontal Circuit
SR704, SR705, SR706	RH-DX0062CEZZ	Horizontal Circuit
SR707	RH-DX0033TAZZ	Horizontal Circuit
SR901, SR902, SR903, SR904	RH-DX0039TAZZ	+B Rectifier
SR905	RH-DX0033TAZZ	Voltage Regulator
ZD901	RH-EX0008TAZZ	Voltage Reference
Integrated Circuit		
IC-181	RH-IX0037CEZZ	Tuning Voltage Regulator
IC-251	RH-IX0007TAZZ	AGC & Sync. Separator
IC-301	RH-IX0001TAZZ	Sound IF Amp.
IC-701	RH-IX0008TAZZ	Sound Detector & Audio Amp.
Miscellaneous Semiconductors		
VR401	RH-VX0004TAZZ	Horizontal AFC & Oscillator
VR601	RH-VX0004TAZZ	Audio Circuit
VR901	RH-VX0004TAZZ	Vertical Circuit
TH251	5KD-5	Regulator Circuit
TH601	5KD-5	AGC Circuit
Tube		Vertical Circuit
V801	E2116/ A31-290W A31-20W	Picture Tube

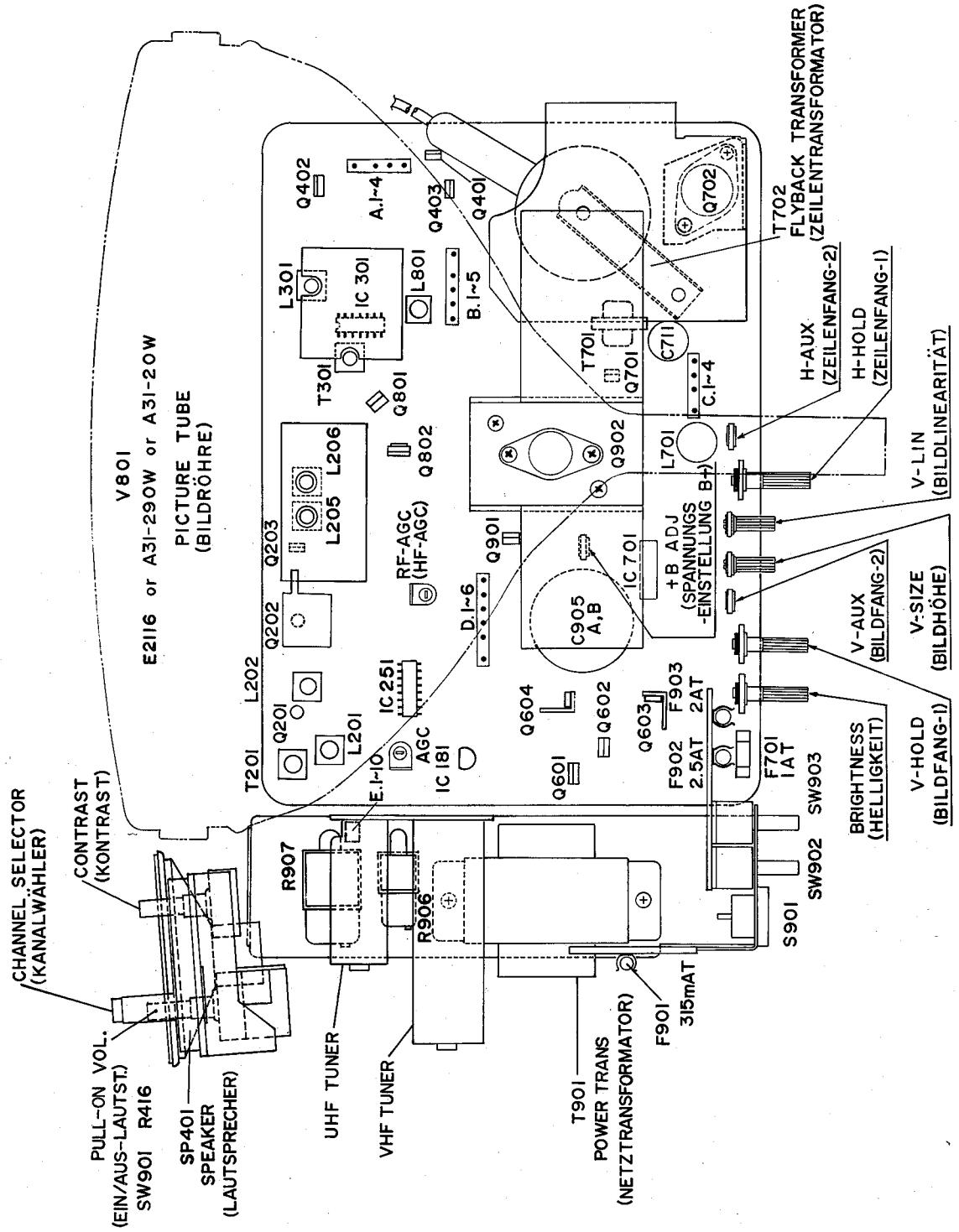


Figure 1 CHASSIS LAYOUT

DC OUTPUT VOLTAGE ALIGNMENT

1. Set AC power supply voltage to 220V (50Hz).
2. Set AC-DC selector switch (SW903) to AC position and TV-CH selector switch (SW902) to TV position, and switch on the switch SW901 to turn on the unit. At the time, make sure that the unit has been in a normal condition.
3. Adjust the +B adjust control (collector of Q902) to 11.5 ± 0.2 V.
Caution: +B voltage is not adjust to over 13V for protection integrated circuit.

AGC Alignment

1. Rotate the RF AGC control (R253) to the maximum counter-clockwise.
2. Receive a test pattern in normal operating receiver condition. (at CCIR)
3. Set the electric field intensity to $60\text{dB} \pm 2\text{dB}$ and RF oscillator to the proper frequency.
4. Adjust the AGC control (R254) to $1.0\text{Vp-p} \pm 0.1\text{V}$ detection output at TP801 that is verified oscilloscope.
5. Whatching the picture in normal operating condition, rotate the RF AGC control (R253) to adjust it just before appearance of the noise in the picture.
6. Set the electric field intensity to $95\text{dB} \pm 2\text{dB}$ and verify no anomalous developing as follows are appears.
 - a. Excessive Contrast
 - b. Horizontal sync lost party.

VERTICAL AND HORIZONTAL CIRCUITS ALIGNMENT

Round Adjustment of Each Section

1. Set the AC line voltage to 220V and verify the DC output voltage 11.5 ± 3 Volts.
2. Receive a test pattern in normal operating receiver condition. (at CCIR)
3. Rotate the Brightness and Contrast controls to maximum clockwise.
4. Set the H-Hold control (R701) to a stabilized point.
5. Set the V-Hold control (R608) to the mechanical center and set V-Aux. control (R607) to a stabilized point.
6. Adjust V-Lin (R614) and V-Size (R612) controls for the best vertical linearity and picture size.
7. Both horizontal and vertical centering are accomplished by rotating the centering rings mounted on the back of the deflection yoke assembly.

V-Line and V-Size Adjustment

Adjust the following steps with stabilize vertically.

1. Receive a test pattern in normal operating receiver condition. (at CCIR)
2. Adjust V-Line control (R614) to obtain the synthetical pattern (top and bottom) and the best linearity.
3. Adjust V-Size control (R612) to obtain the $10 \sim 12\%$ over scanning.

V-Hold and V-Aux. Adjustment

1. Receiver a test pattern in normal operating receiver conditions. (at CCIR)
2. V-Aux. control is used to maintain the proper operating range of the V-Hold control (R608). Set the V-Hold control (R608) to the center of mechanical rotation, then adjust the V-Aux. control until the picture is properly locked in sync.

H-Hold and Horizontal Amplitude Alignment

1. Set the AC line voltage to 220 Volts and verify the DC output voltage 11.5 ± 0.2 Volts.
2. Receive a test pattern in normal operating receiver condition. (at CCIR)
3. H-Aux. control (R707) is used to maintain the proper operating range of the H-Hold control (R701). Set the H-Hold (R701) control to the center of mechanical rotation, then adjust the H-Aux. control (R707) until the picture is properly locked in sync. vertically.
4. Turn counterclockwise the H-Hold (control) until the image will be distorted, then turn it clockwise until the image will resume its normal condition and suppose the pattern center position found at this time as being the point "a". Next, turn it clockwise until the image will be distorted, then turn it counterclockwise until the image will resume its original condition and suppose the pattern center position found this time as being the point "B". Finally, turn it counterclockwise until the pattern center comes to the geometrical center between the points "a" and "b".
5. Set AC-DC selector switch to DC position and set DC power supply voltage to the value where the raster will disappear. Then, adjust the centering magnet to make the raster come to the center of CRT.
6. Set AC-DC selector switch to AC position and adjust the over scanning to the range of 8% to 16%. (When the over scanning is found to exceed 16%, cut out the factory jumper for H-WIDTH to remove C710. With contrast control at "MAX" and bright control at "MIN", make sure the image is not distorted at both ends.)

Electric Varactor Tuner Circuit

1. The electric varactor tuner uses variable capacitance diodes for all of its tuning circuits and DC voltage (tuning voltage) applied to these diodes is changed so that the desired channel is tuned in.
2. DC voltage applied to the diodes can be changed by changing variable resistance values inside the channel selector. (Figure 2).
3. The figures 3 and 4 represent tuning voltages of VHF tuner and UHF tuner, respectively.
4. The channel selector is a changeover switch of 3 bands, VHF-Low (2 to 4 CH), VHF-High (5 to 12 CH) and UHF. Supposed that the tuning voltage is 10 V, the VHF tuner is tuned in between 3 CH and 4 CH when the channel selector is set to VHF-Low, the VHF tuner is tuned in 9 CH when the selector is set to VHF-High, and the UHF tuner is tuned in 45 CH when the selector is set to UHF.

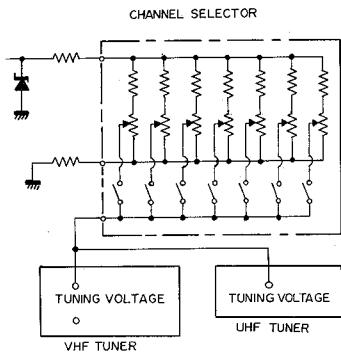


Figure 2

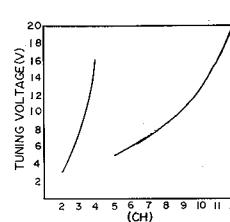


Figure 3

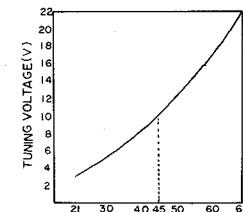


Figure 4

CHASSIS REMOVAL

Whenever it becomes necessary to remove the chassis from the cabinet, proceed in the following manner.

1. Remove the six screws **(A)** and remove the back cabinet.
2. Pull out the all knobs from the front cabinet.
3. Disconnect the main chassis **(B)**, Power Trans former angle **(C)** and tuner angle **(D)**.
4. Remove the two screws **(E)**.
5. Remove the speaker lead **(F)**, Coating eath **(G)**, CRT socket **(H)**, Deflection yoke socket **(I)**, anode cap **(J)**, contrast control socket **(K)**, channel selector socket **(L)**, and wire hold **(M)** from the front of the cabinet.
6. Remove the two screws **(N)**.

Removing and Installing Picture Tube

In order to remove or replace the picture tube, the chassis assemblies must be removed.

Refer to CHASSIS REMOVAL procedure.

When the chassis has been removed, proceed as follows.

1. Lay the cabinet face down on a soft pad so as not to mar the picture tube.
2. Remove the four screws **(O)** fixing the picture tube.
3. Remove the picture tube from the cabinet.

CAUTION: Refer to the caution label on the high voltage compartment cover. Always avoid handling the neck of the picture tube.

4. Fix the picture tube in the proper position of the front cabinet and fix four screws.
5. Reassemble the set.

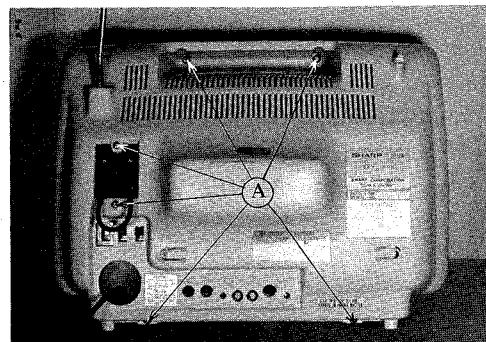


Figure 5

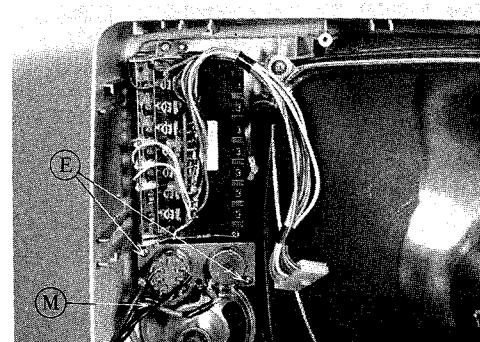


Figure 6

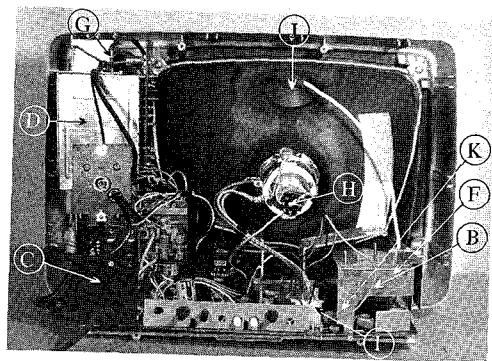


Figure 7

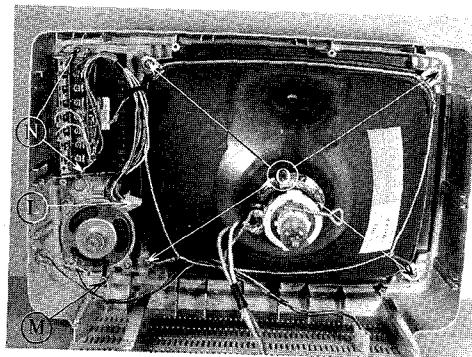


Figure 8

PICTURE IF ALIGNMENT

1. Supply the output of the sweep generator to TP203 (Base of Q203) through a 470 ohm resistor and a 0.01 MFD capacitor in series.
2. Connect input terminal of the oscilloscope to TP801 (Emitter of Q801).
3. Supply the 7~8V DC fixed bias to TP202.
4. Adjust coils (L205 and L206) to obtain the waveform shown in figure 9.
5. Supply the output of the sweep generator to TP (on VHF Tuner) through a 470 ohm resistor and a 0.01 MFD capacitor in series.
6. Adjust the trap L201 to 33.4 MHz and L202 to 40.4 MHz.
7. Supply the 4.8 ± 0.2 V DC fixed bias to TP202.
8. Adjust the transformers T101 (in VHF Tuner) and T201 to obtain the waveform shown in figure 10.
9. If not obtain the waveform shown in figure 10, readjust the coils (L205 and L206) and the transformers (T101 and T201).

5.5 MHz TRAP ALIGNMENT

1. Supply the 5.5 MHz center sweep output of the sweep generator to TP204 (base of Q801) through a 470 ohm resistor and a 0.01 MFD capacitor.
2. Supply the 8V DC fixed bias to TP202.
3. Connect the oscilloscope to the cathode of CRT.
4. Adjust the coil L801 to set the minimum amplitude of 5.5 MHz.

SOUND IF ALIGNMENT

1. Supply the 8V DC fixed bias to TP202.
2. Supply the FM 400Hz at 100% modulation of the sweep generator to TP204 (base of Q801) through a 0.01 MFD capacitor and a 470 ohm resistor in series.
3. Connect the oscilloscope to the volume control (terminal NO.3 of R416) through a 0.0015 MFD capacitor in parallel. (Rotate the volume control to the minimum counter-clockwise)
4. Set the output of the sweep generator to 100 dB.
5. Adjust the coil (L301) until the maximum amplitude waveform is obtained on the oscilloscope.
6. Set the output of the sweep generator to approximately 40 dB. (Drop out of limiter)
7. Adjust the transformer (T301) to obtain the waveform shown in figure 11.

If fail the above adjustment, the waveform should obtain as figure 12.

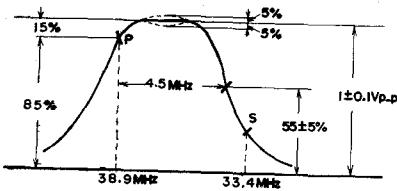


Figure 9

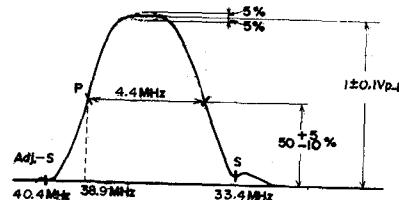


Figure 10

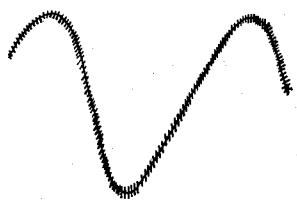


Figure 11



Figure 12

VHF/UHF TUNER PERFORMANCE CHECK (Refer to Figure 13.)

PRELIMINARY INFORMATION

Unless there is evidence of tampering or if electrical repairs have been made, tuner alignment is normally not required. Response Curve "A" is an indicator of the quality of tuner performance. If the response curve is obviously bad on all channels, repair, rather than alignment, is indicated. Check the B pluse voltages applied to the tuners. Also check for bad solder connections and contacts. Visually inspect the circuits for overheated components and obvious wiring defects.

NOTE: When checking overall RF-IF response curves, bear in mind that it is necessary to verify that the video IF circuitry is operating normally and is properly aligned before an evaluation can be made on the VHF RF-IF response curve.

Also, it is necessary to verify that the video IF circuitry and VHF tuner are operating normally and that these circuits are properly aligned before an evaluation can be made on the UHF RF-IF response curve.

VHF TUNER PERFORMANCE CHECK

Test Equipment Connections

GENERAL . . . The set under test should be correctly fine tuned. Fine tuning should not be adjusted while performing this tuner check. Disconnect external antenna from VHF tuner.

OSCILLOSCOPE . . . With a 2.0V P-P calibration, connect direct probe through a 15K ohm resistor to TP801.

SWEEP GENERATOR . . . Connect output to the VHF tuner antenna terminals using proper matching pad.

MARKER GENERATOR . . . Connect markers at 38.9 MHz and 34.4 MHz loosely to Sweep Generator leads.

BIAS SUPPLY . . . Apply 4.5 ~ 4.8 volts bias to base of Q202. Adjust biases while chassis is operating.

Performance Check Turn set "on".

Starting with the VHF tuner placed in the Channel 6 position and the Sweep Generator set at the proper frequency, check the overall response curve as viewed on the Oscilloscope. This viewed curve should match, approximately, Response Curve "A". The same procedure should be used for Channels 12 through 2.

UHF TUNER PERFORMANCE CHECK

Test Equipment Connections

GENERAL . . . The video IF Alignment and VHF Tuner Check should be completed prior to this procedure. Disconnect the external antenna from UHF tuner. All equipment connections are the same as for the VHF Tuner Performance Check except the Sweep Generator.

SWEEP GENERATOR (UHF) . . . Connect output to UHF tuner antenna terminals using proper matching pad.

Performance Check

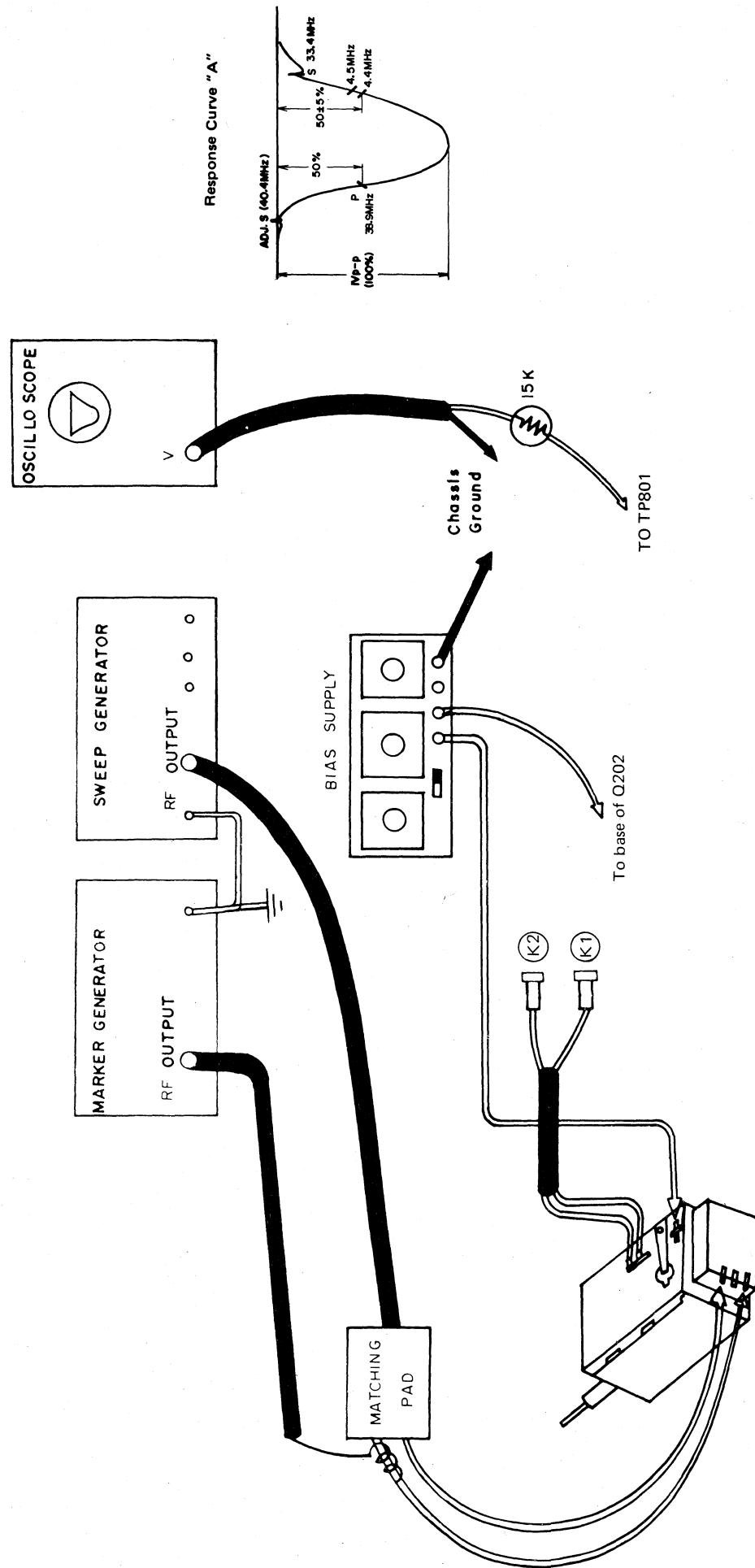
Turn set and test equipment "on".

Place the VHF tuner in the UHF position.

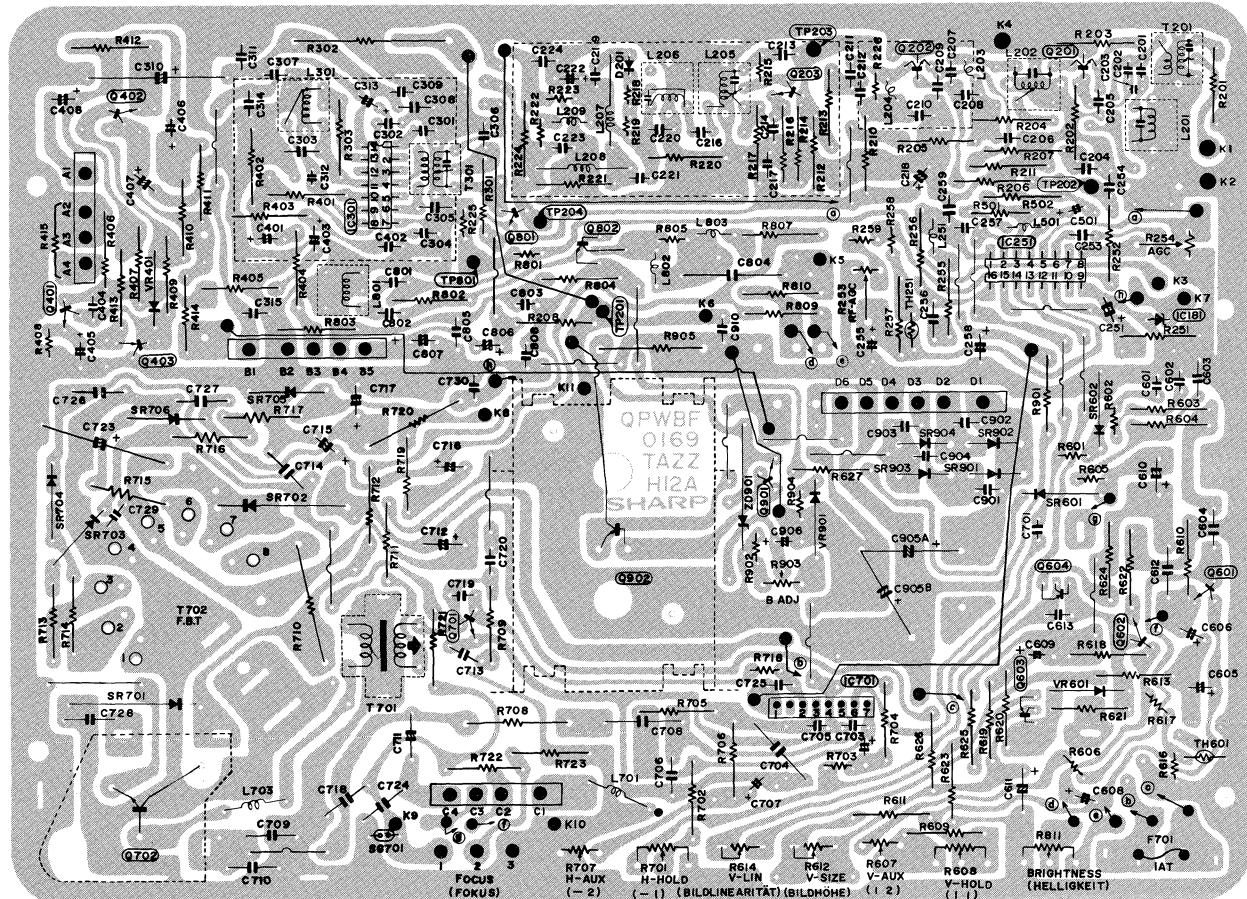
Set the center frequency to the Sweep Generator at 700 MHz. and tune the UHF tuner to this frequency (approximately Channel 49) so that the overall RF-IF response curve can be observed on the Oscilloscope. This response curve should be consistent with limits of the overall RF-IF Response Curve "A".

NOTE: The amplitude of the response curve should be kept at 1V P-P for this alignment.

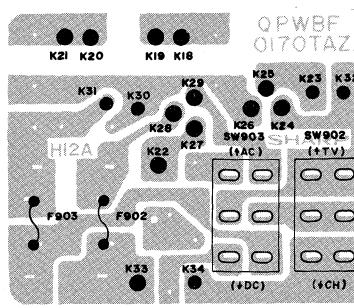
Tune the Sweep Generator and the UHF tuner throughout the UHF range to check the overall performance.



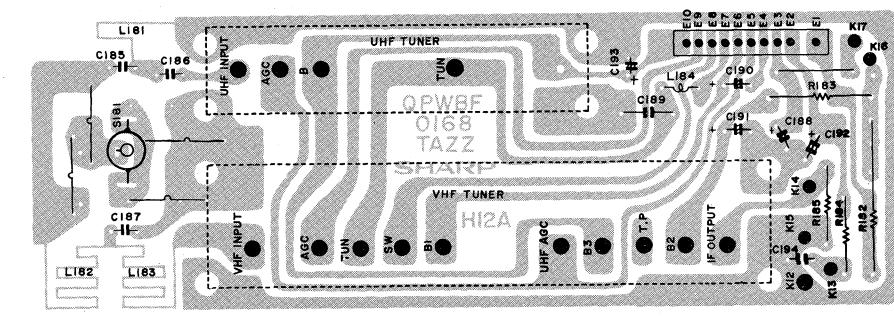
Wiring Side of P.W. Board



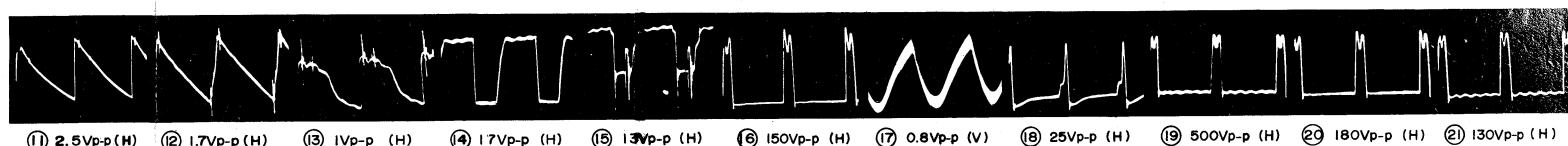
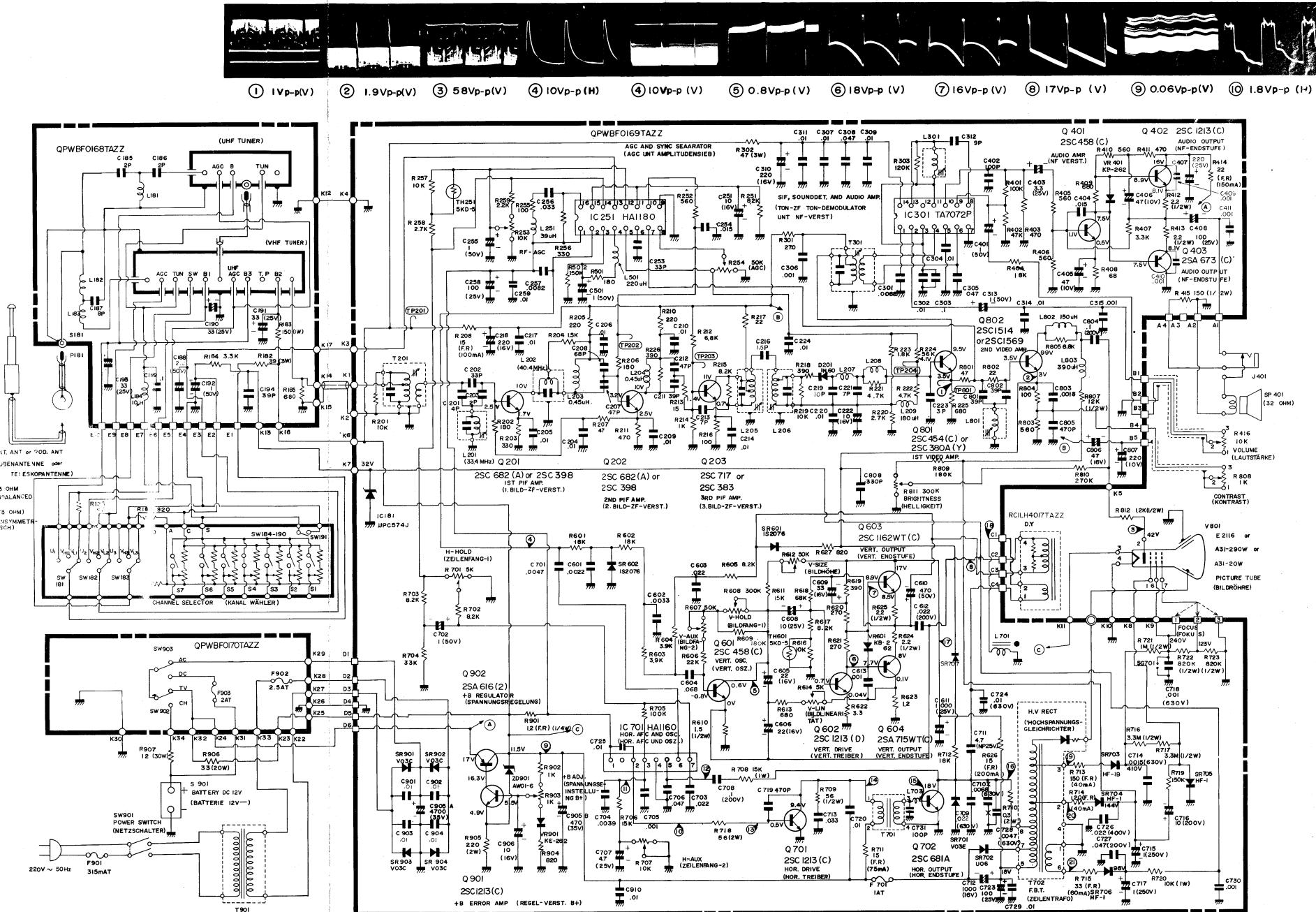
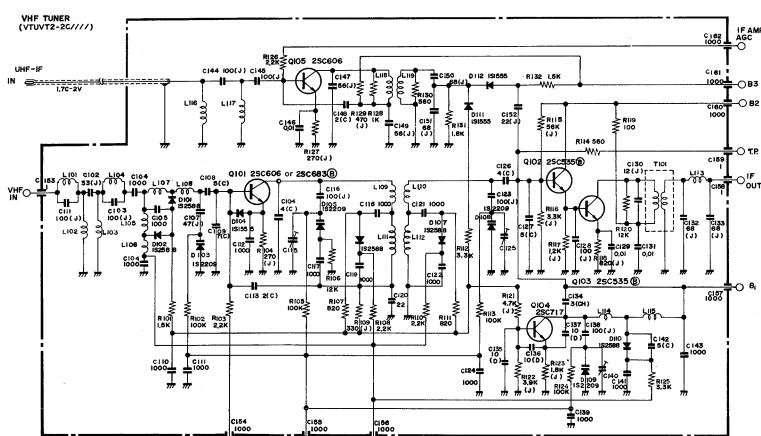
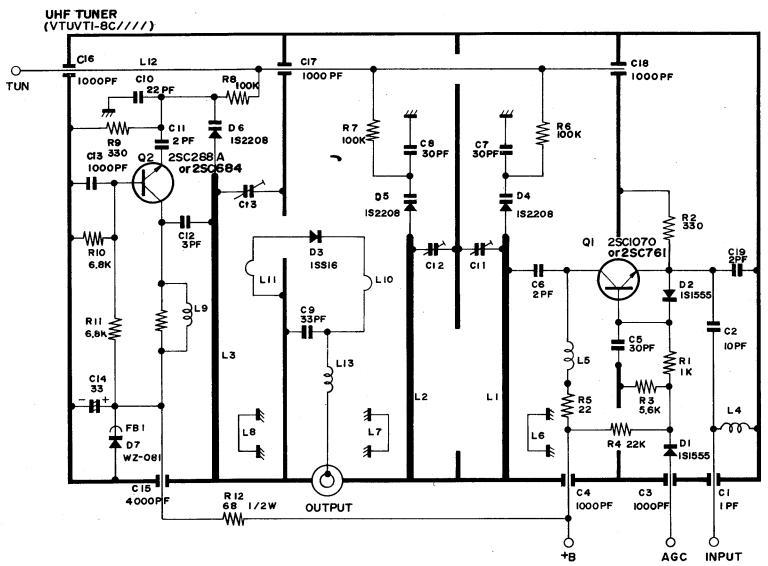
Main Circuit



Power Circuit

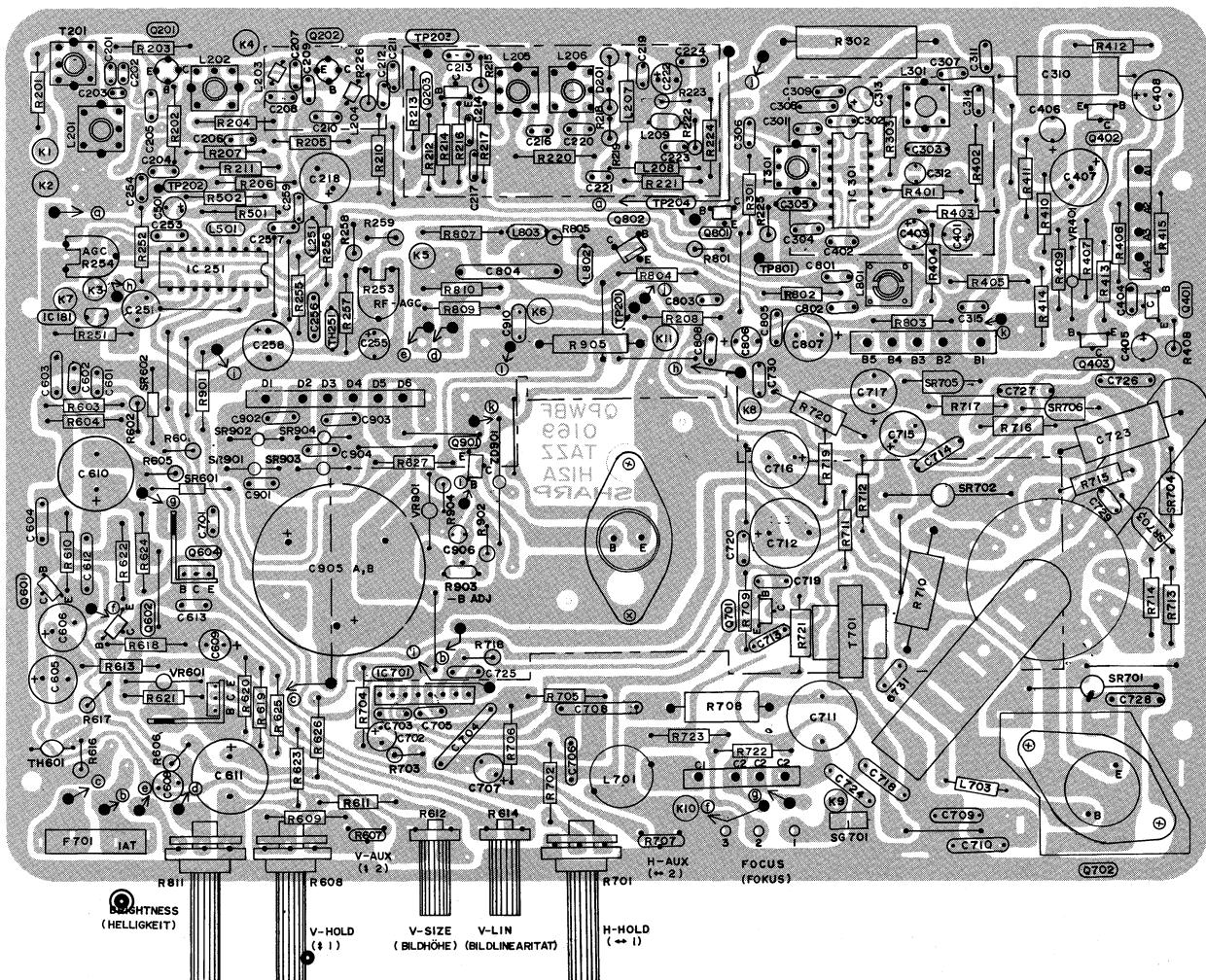


Tuner Circuit

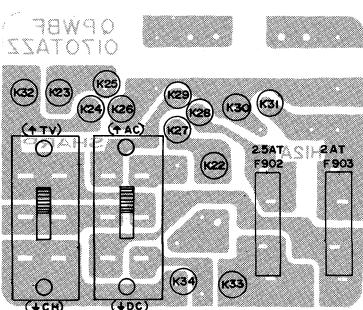


SCHEMATIC DIAGRAM

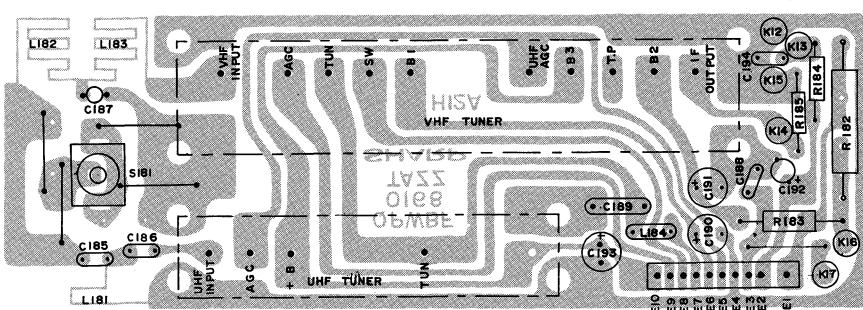
Component Side of P.W. Board



Main Circuit



Power Circuit



Tuner Circuit

PARTS LIST

REF. NO.	NEW PART NAME	DESCRIPTION	CODE
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REF. NO.	NEW PART NAME	DESCRIPTION	CODE
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CAPACITORS

C185,	VCCSPA1H62R0C	2PF, 50V, .25PF, Discap	AA
C186,	VCCSPA1H68R0D	8PF, 50V, Discap	AA
C187,	VCQYKU1HM472K	.0047MFD, 50V, 10%, Mylar	AB
C188,	VCQYSU1HM104K	.1MFD, 50V, 10%, Mylar	AC
C189,	VCEAAH1EC336Y	33MFD, 25V, Electrolytic	AB
C190,	VCEAAH1HC105A	1MFD, 50V, Electrolytic	AB
C191,	VCCSPA1H6390J	39PF, 50V, Discap	AA
C192,	VCCSPA1H64R0C	4PF, 50V, .25PF, Discap	AA
C194,	VCCSPA1H6330J	33PF, 50V, 5%, Discap	AA
C201,	VCCSPA1H62R0C	2PF, 50V, .25PF, Discap	AA
C203,	VCKZPA1HF103Z	.01MFD, 50V, Discap	AA
C204,	VCCSPA1H6470J	47PF, 50V, 5%, Discap	AA
C208,	VCCSPA1H6680J	68PF, 50V, 5%, Discap	AA
C211,	VCCSPA1H6390J	39PF, 50V, 5%, Discap	AA
C213,	VCCSPA1H67R0D	7PF, 50V, Discap	AA
C216,	VCCSPA1H61R5C	1.5PF, 50V, .25PF, Discap	AA
C218,	VCEAAH1CC227Y	220MFD, 16V, Electrolytic	AC
C219,	VCCSPA1H6100D	10PF, 50V, Discap	AA
C222,	VCEAAH1CC106Y	10MFD, 16V, Electrolytic	AB
C223,	VCCSPA1H63R0C	3PF, 50V, 25PF, Discap	AA
C251,	VCEABU1CW106M	10MFD, 16V, Electrolytic	AD
C252,	VCQPSB2JA103K	.01MFD, 630V, Polypro Film	AB
C253,	VCCSPA1H6330J	33PF, 50V, 5%, Discap	AA
C254,	VCQYKU1HM153K	.015MFD, 50V, 10%, Mylar	AB
C255,	VCEAAH1HC105A	1MFD, 50V, Electrolytic	AB
C256,	VCQYSU1HM333K	.033MFD, 50V, 10%, Mylar	AB
C257,	VCQYKU1HM822K	.0082MFD, 50V, 10%, Mylar	AB
C258,	VCEAAH1EC107Y	100MFD, 25V, Electrolytic	AC
C301,	VCQYKU1HM682K	.0068MFD, 50V, 10%, Mylar	AB
C302,	VCKZPA1HF103Z	.01MFD, 50V, Discap	AA
C304,	VCQYKU1HM104K	.1MFD, 50V, 10%, Mylar	AC
C305,	VCQYKU1HM473K	.047MFD, 50V, 10%, Mylar	AC
C306,	VCKZPA1HB102K	.001MFD, 50V, 10%, Discap	AA
C310,	VCEAAT1CW227Q	220MFD, 16V, Electrolytic	AD
C312,	VCCWPU1H59R0D	9PF, 50V, Discap	AB
C313,	VCEAAH1HC105A	1MFD, 50V, Electrolytic	AB
C401,	VCEAAH1HC105A	1MFD, 50V, Electrolytic	AB
C402,	VCCSPA1H6101K	100PF, 50V, 10%, Discap	AA
C403,	VCEAAU1EW335R	3.3MFD, 25V, Electrolytic	AB
C404,	VCQYKU1HM153K	.015MFD, 50V, 10%, Mylar	AB
C405,	VCEAAU1AW476Q	47MFD, 10V, Electrolytic	AC
C406,	VCEAAH1EC227Y	220MFD, 25V, Electrolytic	AD

C408	VCEAAH1EC107Y	100MFD, 25V, Electrolytic	AC
C501	VCEAAH1HC105A	1MFD, 50V, Electrolytic	AB
C601	VCQYKU1HM222K	.0022MFD, 50V, 10%, Mylar	AB
C602	VCQYKU1HM332K	.0033MFD, 50V, 10%, Mylar	AB
C603	VCQYKU1HM223K	.022MFD, 50V, 10%, Mylar	AB
C604	VCQYSU1HM683K	.068MFD, 50V, 10%, Mylar	AC
C605,	RC-EZ0029TAZZ	22MFD, 16V, Electrolytic	AD
C606	VCEAAH1EC106Y	10MFD, 25V, Electrolytic	AB
C609	VCEAAU1CW336Q	33MFD, 16V, Electrolytic	AC
C610	VCEAAH1EC477Y	470MFD, 50V, Electrolytic	AE
C611	VCEAAU1EW108Q	1000MFD, 25V, Electrolytic	AG
C612	VCQPSB2DA223K	.022MFD, 200V, 10%, Polypro Film	AB
C613	VCKZPA1HB102K	.001MFD, 50V, 10%, Discap	AA
C701	VCQYKU1HM472K	.0047MFD, 50V, 10%, Mylar	AB
C702	VCEAAH1HC105A	1MFD, 50V, Electrolytic	AB
C703	VCQYKU1HM223K	.022MFD, 50V, 10%, Mylar	AB
C704	VCQSM1HS392J	.0039MFD, 50V, 5%, Styrene	AC
C705	VCQYKU1HM102K	.001MFD, 50V, 10%, Mylar	AB
C706	VCQYSU1HM473K	.047MFD, 50V, 10%, Mylar	AB
C707	VCEAAH1EC475A	4.7MFD, 25V, Electrolytic	AB
C708	VCQPS2DA104K	.1MFD, 200V, 10%, Polypro Film	AC
C709	VCQPS2JA223K	.022MFD, 630V, 10%, Polypro Film	AB
C710	VCQPSB2JA682K	.0068MFD, 630V, 10%, Polypro Film	AB
C711	RC-EZ0022TAZZ	4.7MFD, 25V, Spec. Electrolytic	AG
C712	VCEAAH1CC108Y	100MFD, 16V, Electrolytic	AE
C713	VCQYKU1HM333K	.033MFD, 50V, 10%, Mylar	AB
C714	VCQPSB2JA152K	.0015MFD, 630V, 10%, Polypro Film	AB
C715,	VCEAAU2EW105R	1MFD, 250V, Electrolytic	AD
C717	VCEAAU2DW106Q	10MFD, 200V, Electrolytic	AE
C718	VCQPSB2JA102K	.001MFD, 630V, 10%, Polypro Film	AB
C719	VCKZPA1HB471K	470PF, 50V, 10%, Discap	AB
C720,	VCKZPA1HF103Z	.01MFD, 50V, Discap	AA
C725,	VCKZPA1HF103Z	.01MFD, 50V, Discap	AA
C729	VCEAAT1EW107Q	100MFD, 25V, Electrolytic	AE
C723	VCQPSB2JA103K	.01MFD, 630V, 10%, Polypro Film	AB
C724	VCQPSB2GA223K	.022MFD, 400V, 10%, Polypro Film	AB
C726	VCQPSB2DA473K	.047MFD, 200V, 10%, Polypro Film	AC
C727	VCQPSB2JA472K	.0047MFD, 630V, 10%, Polypro Film	AB
C728	VCKZPA1HB102K	.001MFD, 50V, 10%, Discap	AA
C730	VCCSPA1H6101K	100PF, 50V, 10%, Discap	AA
C731	VCCSPA1H6390J	39PF, 50V, 5%, Discap	AA
C801,	VCQYKU1HM182K	.0018MFD, 50V, 10%, Mylar	AB
C802	VCQPS2DA104K	.1MFD, 200V, 10%, Polypro Film	AC
C803	VCKZPA1HB471K	470PF, 50V, 10%, Discap	AB
C804	VCEAAH1CC476Y	47MFD, 16V, Electrolytic	AB
C805	VCEAAH1AC227Y	220MFD, 10V, Electrolytic	AC
C806	VCCSPA1H6331K	330PF, 50V, 10%, Discap	AA
C807	VCKZPA1HB102K	.001MFD, 50V, 10%, Discap	AA
C808	VCEAAT1CW227Q	220MFD, 16V, Electrolytic	AD
C901,	VCEAAU1EW108Q	.0018MFD, 50V, 10%, Discap	AA
C902,	VCEAAU2DW106Q	.0018MFD, 250V, 10%, Discap	AA
C903,	VCEAAU2DW106Q	.0018MFD, 250V, 10%, Discap	AA
C904,	VCEAAU2DW106Q	.0018MFD, 250V, 10%, Discap	AA
C905,	VCEAAU2DW106Q	.0018MFD, 250V, 10%, Discap	AA
A, B	VCEA1Q1VBA94Q	4700MFD/470MFD, 35V, Electrolytic	AP
C906	VCEAAH1CC106Y	10MFD, 16V, Electrolytic	AB
C910	VCKZPA1HF103Z	.01MFD, 50V, Electrolytic	AA

RESISTOR

R181	VRD-ST2EY561J	560 ohm	AA
R182	VRS-PT3LB390J	39 ohm, 3W, 5%, Oxide Film	AC
R183	VRS-PT3AB151J	150 ohm, 1W, 5%, Oxide Film	AB

PARTS LIST

REF. NO.	NEW PART NAME	DESCRIPTION	CODE	REF. NO.	NEW PART NAME	DESCRIPTION	CODE																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R184	VRD-ST2EY3332J	3.3K ohm	AA	R611	VRD-ST2EY153J	15K ohm	AA																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R185	VRD-ST2EY681J	680 ohm	AA	R613	VRD-ST2EY681J	680 ohm	AA																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R186	VRC-MT2EG470J	47 ohm	AA	R616	VRD-SU2EY103J	10K ohm	AA																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R187	VRD-ST2EY821J	820 ohm	AA	R618	VRD-ST2EY683J	68K ohm	AA																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R201	VRC-MB2EG103K	10K ohm, $\frac{1}{4}$ W, 10%, Carbon	AA	R619	VRD-SB2EY391J	390 ohm	AA																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R202	VRC-MB2EG181K	180 ohm, $\frac{1}{4}$ W, 10%, Carbon	AA	R620	VRD-ST2EY271J	270 ohm	AA																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R206	VRC-MB2EG331K	330 ohm, $\frac{1}{4}$ W, 10%, Carbon	AA	R622	VRD-ST2EY3R3J	3.3 ohm	AA																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R204	VRC-MB2EG152J	1.5K ohm	AA	R623	VRD-SB2EY1R2J	1.2 ohm	AA																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R205	VRC-MB2EG221K	220 ohm, $\frac{1}{4}$ W, 10%, Carbon	AA	R624	VRD-SA2HD2R2J	2.2 ohm, $\frac{1}{2}$ W, 5%, Carbon	AA																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R210	VRC-MB2EG470K	47 ohm, $\frac{1}{4}$ W, 10%, Carbon	AA	R625	RR-XZ0009TAZZ	15 ohm, 200mA, Fuse Resistor	AD																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R208	RR-XZ0006TAZZ	15 ohm, 100mA, Fuse Resistor	AD	R627	VRD-ST2EY821J	820 ohm	AA																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R211	VRC-MB2EG471K	470 ohm, $\frac{1}{4}$ W, 10%, Carbon	AA	R702	VRD-ST2EY822J	8.2K ohm	AA																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R212	VRC-MB2EG682K	6.8K ohm, $\frac{1}{4}$ W, 10%, Carbon	AA	R703	VRD-SU2EY822J	8.2K ohm	AA																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R213	VRC-MB2EG150K	15 ohm, $\frac{1}{4}$ W, 10%, Carbon	AA	R704	VRD-ST2EY333J	33K ohm	AA																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R214	VRC-MB2EG102K	1K ohm, $\frac{1}{4}$ W, 10%, Carbon	AA	R705	VRD-ST2EY104J	100K ohm	AA																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R215	VRC-MT2EG822K	8.2K ohm, $\frac{1}{4}$ W, 10%, Carbon	AA	R706	VRN-RT2EK153J	15K ohm, $\frac{1}{4}$ W, 5%, Metalize Film	AB																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R216	VRC-MB2EG101K	100 ohm, $\frac{1}{4}$ W, 10%, Carbon	AA	R708	VRS-PT3AB153J	15K ohm, 1W, 5%, Oxide Film	AB																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R217	VRC-MB2EG220K	22 ohm, $\frac{1}{4}$ W, 10%, Carbon	AA	R709	VRD-SA2HD560J	56 ohm, $\frac{1}{2}$ W, 5%, Oxide Film	AA																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R218	VRC-MT2EG391K	390 ohm, $\frac{1}{4}$ W, 10%, Carbon	AA	R710	VRW-KT3DDR30K	0.3 ohm, 2W, 10%, Cement	AC																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R226	VRC-MT2EG103K	10K ohm, $\frac{1}{4}$ W, 10%, Carbon	AA	R711	RR-XZ0005TAZZ	15 ohm, 75mA, Fuse Resistor	AD																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R219	VRD-ST2EY272J	2.7K ohm	AA	R712	VRD-ST2EY183J	18K ohm	AA																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R221	VRC-MB2EG472K	4.7K ohm, $\frac{1}{4}$ W, 10%, Carbon	AA	R713	RR-XZ0010TAZZ	150 ohm, 40mA, Fuse Resistor	AD																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R222	VRC-MT2EG472K	4.7K ohm, $\frac{1}{4}$ W, 10%, Carbon	AA	R714	RR-XZ0013TAZZ	120 ohm, 40mA, Fuse Resistor	AD																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R223	VRC-MT2EG182K	1.8K ohm, $\frac{1}{4}$ W, 10%, Carbon	AA	R715	RR-XZ0011TAZZ	33 ohm, 60mA, Fuse Resistor	AD																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R224	VRD-ST2EY563J	56K ohm	AA	R716	VRD-SA2HD335J	3.3 Meg ohm, $\frac{1}{2}$ W, 5%, Carbon	AA																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R225	VRC-MT2EG681K	680 ohm, $\frac{1}{4}$ W, 10%, Carbon	AA	R717	VRS-PT3DB560J	56 ohm, 2W, 5%, Oxide Film	AB																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R251	VRD-ST2EY822J	8.2K ohm	AA	R718	VRD-ST2EY154J	150K ohm	AA																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R252	VRD-ST2EY561J	560 ohm	AA	R719	VRD-ST2EY103J	10K ohm, 1W, 5%, Oxide Film	AB																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R255	VRD-ST2EY101J	100 ohm	AA	R720	VRD-SA2HD105J	1 Meg ohm, $\frac{1}{2}$ W, 5%, Carbon	AA																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R256	VRD-ST2EY331J	330 ohm	AA	R721	VRD-SA2HD824J	820K ohm, $\frac{1}{2}$ W, 5%, Carbon	AA																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R257	VRD-ST2EY103J	10K ohm	AA	R723	VRC-MT2EG470K	47 ohm, $\frac{1}{4}$ W, 10%, Carbon	AA																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R258	VRD-SU2EY272J	2.7K ohm	AA	R801	VRC-MB2EG220K	22 ohm, $\frac{1}{4}$ W, 10%, Carbon	AA																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R259	VRD-SU2EY222J	2.2K ohm	AA	R802	R803	R804	R805	R806	R807	R808	R809	R810	R901	R902	R903	R904	R905	R906	R907	Unless otherwise specified all resistor are $\frac{1}{4}$ W, 5% Carbon type.																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
R301	VRC-MB2EG271K	270 ohm, $\frac{1}{4}$ W, 10%, Carbon	AA	R803	VRD-ST2EY561J	560 ohm	AA	R804	VRD-ST2EY101J	100 ohm	AA	R805	VRD-SU2EY682J	6.8K ohm	AA	R806	VRD-SA2HD123J	12K ohm, $\frac{1}{2}$ W, 5%, Carbon	AA	R807	VRD-ST2EY184J	180K ohm	AA	R808	VRD-ST2EY274J	270K ohm	AA	R809	RR-XZ0012TAZZ	1.2 ohm, $\frac{1}{4}$ W, 10%, Fuse Resistor	AD	R810	VRD-SU2EY102J	1K ohm	AA	R811	VRC-MT2EG821J	820 ohm	AA	R812	VRS-PT3DB221J	220 ohm, 2W, 5%, Oxide Film	AB	R813	VRW-CV4DD330K	33 ohm, 20W, 10%, Resin	AF	R814	VRW-CV4LD120K	12 ohm, 30W, 10%, Resin	AG																																																																																																																																																																																																																																																																																																																																																																																																																																		
R302	VRS-PT3LB470K	47 ohm, 3W, 10%, Oxide Film	AC	R807	VRD-SA2HD123J	12K ohm, $\frac{1}{2}$ W, 5%, Carbon	AA	R808	VRD-ST2EY184J	180K ohm	AA	R809	VRD-ST2EY274J	270K ohm	AA	R810	RR-XZ0012TAZZ	1.2 ohm, $\frac{1}{4}$ W, 10%, Fuse Resistor	AD	R811	VRD-SU2EY102J	1K ohm	AA	R812	VRC-MT2EG821J	820 ohm	AA	R813	VRS-PT3DB221J	220 ohm, 2W, 5%, Oxide Film	AB	R814	VRW-CV4DD330K	33 ohm, 20W, 10%, Resin	AF	R815	VRW-CV4LD120K	12 ohm, 30W, 10%, Resin	AG																																																																																																																																																																																																																																																																																																																																																																																																																																														
R303	VRC-MB2EG124K	120K ohm, $\frac{1}{4}$ W, 10%, Carbon	AA	R808	VRD-ST2EY184J	180K ohm	AA	R809	VRD-ST2EY274J	270K ohm	AA	R810	RR-XZ0012TAZZ	1.2 ohm, $\frac{1}{4}$ W, 10%, Fuse Resistor	AD	R811	VRD-SU2EY102J	1K ohm	AA	R812	VRC-MT2EG821J	820 ohm	AA	R813	VRS-PT3DB221J	220 ohm, 2W, 5%, Oxide Film	AB	R814	VRW-CV4DD330K	33 ohm, 20W, 10%, Resin	AF	R815	VRW-CV4LD120K	12 ohm, 30W, 10%, Resin	AG																																																																																																																																																																																																																																																																																																																																																																																																																																																		
R401	VRC-MB2EG104K	100K ohm, $\frac{1}{4}$ W, 10%, Carbon	AA	R809	VRD-ST2EY184J	180K ohm	AA	R810	VRD-ST2EY274J	270K ohm	AA	R811	RR-XZ0012TAZZ	1.2 ohm, $\frac{1}{4}$ W, 10%, Fuse Resistor	AD	R812	VRD-SU2EY102J	1K ohm	AA	R813	VRC-MT2EG821J	820 ohm	AA	R814	VRS-PT3DB221J	220 ohm, 2W, 5%, Oxide Film	AB	R815	VRW-CV4DD330K	33 ohm, 20W, 10%, Resin	AF	R816	VRW-CV4LD120K	12 ohm, 30W, 10%, Resin	AG																																																																																																																																																																																																																																																																																																																																																																																																																																																		
R402	VRC-MB2EG473K	47K ohm, $\frac{1}{4}$ W, 10%, Carbon	AA	R810	VRD-ST2EY274J	270K ohm	AA	R811	RR-XZ0012TAZZ	1.2 ohm, $\frac{1}{4}$ W, 10%, Fuse Resistor	AD	R812	VRD-SU2EY102J	1K ohm	AA	R813	VRC-MT2EG821J	820 ohm	AA	R814	VRS-PT3DB221J	220 ohm, 2W, 5%, Oxide Film	AB	R815	VRW-CV4DD330K	33 ohm, 20W, 10%, Resin	AF	R816	VRW-CV4LD120K	12 ohm, 30W, 10%, Resin	AG																																																																																																																																																																																																																																																																																																																																																																																																																																																						
R403	VRD-ST2EY471J	470 ohm	AA	R812	VRD-SU2EY102J	1K ohm	AA	R813	VRC-MT2EG821J	820 ohm	AA	R814	VRS-PT3DB221J	220 ohm, 2W, 5%, Oxide Film	AB	R815	VRW-CV4DD330K	33 ohm, 20W, 10%, Resin	AF	R816	VRW-CV4LD120K	12 ohm, 30W, 10%, Resin	AG																																																																																																																																																																																																																																																																																																																																																																																																																																																														
R404	VRD-ST2EY183J	18K ohm	AA	R813	VRC-MT2EY471J	470 ohm	AA	R814	VRS-PT3DB221J	220 ohm, 2W, 5%, Oxide Film	AB	R815	VRW-CV4DD330K	33 ohm, 20W, 10%, Resin	AF	R816	VRW-CV4LD120K	12 ohm, 30W, 10%, Resin	AG																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
R405	VRD-ST2EY561J	560 ohm	AA	R814	VRC-MT2EY471J	470 ohm	AA	R815	VRC-MT2EY471J	470 ohm	AA	R816	VRC-MT2EY471J	470 ohm	AA	R817	VRC-MT2EY471J	470 ohm	AA	R818	VRC-MT2EY471J	470 ohm	AA	R819	VRC-MT2EY471J	470 ohm	AA	R820	VRC-MT2EY471J	470 ohm	AA	R821	VRC-MT2EY471J	470 ohm	AA	R822	VRC-MT2EY471J	470 ohm	AA	R823	VRC-MT2EY471J	470 ohm	AA	R824	VRC-MT2EY471J	470 ohm	AA	R825	VRC-MT2EY471J	470 ohm	AA	R826	VRC-MT2EY471J	470 ohm	AA	R827	VRC-MT2EY471J	470 ohm	AA	R828	VRC-MT2EY471J	470 ohm	AA	R829	VRC-MT2EY471J	470 ohm	AA	R830	VRC-MT2EY471J	470 ohm	AA	R831	VRC-MT2EY471J	470 ohm	AA	R832	VRC-MT2EY471J	470 ohm	AA	R833	VRC-MT2EY471J	470 ohm	AA	R834	VRC-MT2EY471J	470 ohm	AA	R835	VRC-MT2EY471J	470 ohm	AA	R836	VRC-MT2EY471J	470 ohm	AA	R837	VRC-MT2EY471J	470 ohm	AA	R838	VRC-MT2EY471J	470 ohm	AA	R839	VRC-MT2EY471J	470 ohm	AA	R840	VRC-MT2EY471J	470 ohm	AA	R841	VRC-MT2EY471J	470 ohm	AA	R842	VRC-MT2EY471J	470 ohm	AA	R843	VRC-MT2EY471J	470 ohm	AA	R844	VRC-MT2EY471J	470 ohm	AA	R845	VRC-MT2EY471J	470 ohm	AA	R846	VRC-MT2EY471J	470 ohm	AA	R847	VRC-MT2EY471J	470 ohm	AA	R848	VRC-MT2EY471J	470 ohm	AA	R849	VRC-MT2EY471J	470 ohm	AA	R850	VRC-MT2EY471J	470 ohm	AA	R851	VRC-MT2EY471J	470 ohm	AA	R852	VRC-MT2EY471J	470 ohm	AA	R853	VRC-MT2EY471J	470 ohm	AA	R854	VRC-MT2EY471J	470 ohm	AA	R855	VRC-MT2EY471J	470 ohm	AA	R856	VRC-MT2EY471J	470 ohm	AA	R857	VRC-MT2EY471J	470 ohm	AA	R858	VRC-MT2EY471J	470 ohm	AA	R859	VRC-MT2EY471J	470 ohm	AA	R860	VRC-MT2EY471J	470 ohm	AA	R861	VRC-MT2EY471J	470 ohm	AA	R862	VRC-MT2EY471J	470 ohm	AA	R863	VRC-MT2EY471J	470 ohm	AA	R864	VRC-MT2EY471J	470 ohm	AA	R865	VRC-MT2EY471J	470 ohm	AA	R866	VRC-MT2EY471J	470 ohm	AA	R867	VRC-MT2EY471J	470 ohm	AA	R868	VRC-MT2EY471J	470 ohm	AA	R869	VRC-MT2EY471J	470 ohm	AA	R870	VRC-MT2EY471J	470 ohm	AA	R871	VRC-MT2EY471J	470 ohm	AA	R872	VRC-MT2EY471J	470 ohm	AA	R873	VRC-MT2EY471J	470 ohm	AA	R874	VRC-MT2EY471J	470 ohm	AA	R875	VRC-MT2EY471J	470 ohm	AA	R876	VRC-MT2EY471J	470 ohm	AA	R877	VRC-MT2EY471J	470 ohm	AA	R878	VRC-MT2EY471J	470 ohm	AA	R879	VRC-MT2EY471J	470 ohm	AA	R880	VRC-MT2EY471J	470 ohm	AA	R881	VRC-MT2EY471J	470 ohm	AA	R882	VRC-MT2EY471J	470 ohm	AA	R883	VRC-MT2EY471J	470 ohm	AA	R884	VRC-MT2EY471J	470 ohm	AA	R885	VRC-MT2EY471J	470 ohm	AA	R886	VRC-MT2EY471J	470 ohm	AA	R887	VRC-MT2EY471J	470 ohm	AA	R888	VRC-MT2EY471J	470 ohm	AA	R889	VRC-MT2EY471J	470 ohm	AA	R890	VRC-MT2EY471J	470 ohm	AA	R891	VRC-MT2EY471J	470 ohm	AA	R892	VRC-MT2EY471J	470 ohm	AA	R893	VRC-MT2EY471J	470 ohm	AA	R894	VRC-MT2EY471J	470 ohm	AA	R895	VRC-MT2EY471J	470 ohm	AA	R896	VRC-MT2EY471J	470 ohm	AA	R897	VRC-MT2EY471J	470 ohm	AA	R898	VRC-MT2EY471J	470 ohm	AA	R899	VRC-MT2EY471J	470 ohm	AA	R900	VRC-MT2EY471J	470 ohm	AA	R901	VRC-MT2EY471J	470 ohm	AA	R902	VRC-MT2EY471J	470 ohm	AA	R903	VRC-MT2EY471J	470 ohm	AA	R904	VRC-MT2EY471J	470 ohm	AA	R905	VRC-MT2EY471J	470 ohm	AA	R906	VRC-MT2EY471J	470 ohm	AA	R907	VRC-MT2EY471J	470 ohm	AA	R908	VRC-MT2EY471J	470 ohm	AA	R909	VRC-MT2EY471J	470 ohm	AA	R910	VRC-MT2EY471J	470 ohm	AA	R911	VRC-MT2EY471J	470 ohm	AA	R912	VRC-MT2EY471J	470 ohm	AA	R913	VRC-MT2EY471J	470 ohm	AA	R914	VRC-MT2EY471J	470 ohm	AA	R915	VRC-MT2EY471J	470 ohm	AA	R916	VRC-MT2EY471J	470 ohm	AA	R917	VRC-MT2EY471J	470 ohm	AA	R918	VRC-MT2EY471J	470 ohm	AA	R919	VRC-MT2EY471J	470 ohm	AA	R920	VRC-MT2EY471J	470 ohm	AA	R921	VRC-MT2EY471J	470 ohm	AA	R922	VRC-MT2EY471J	470 ohm	AA	R923	VRC-MT2EY471J	470 ohm	AA	R924	VRC-MT2EY471J	470 ohm	AA	R925	VRC-MT2EY471J	470 ohm	AA	R926	VRC-MT2EY471J	470 ohm	AA	R927	VRC-MT2EY471J	470 ohm	AA	R928	VRC-MT2EY471J	470 ohm	AA	R929	VRC-MT2EY471J	470 ohm	AA	R930	VRC-MT2

PARTS LIST

REF. NO.	NEW PART NAME	DESCRIPTION	CODE
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COILS AND TRANSFORMERS

L184	RCILH4017TAZZ	Deflection Yoke	AW
	VP-LF100K0000	Coil, Peaking	AB
L201	RCILI0174TAZZ	Coil, Sound Trap (33.4MHz)	AE
L202	RCILI0092TAZZ	Coil, Adj. Trap (40.4MHz)	AE
L203	RCILF0022TAZZ	Coil, Peaking	AC
L204	RCILF0022TAZZ	Coil, Pix Detector	AE
L205	RCILI0139TAZZ	Coil, Pix Detector	AE
L206	RCILI0175TAZZ	Coil, Filter	AD
L207	RCILF0001TAZZ	Coil, Peaking	AB
L208	RCILF0001TAZZ	Coil, Peaking	AB
L209	VP-LF181K0000	Coil, Sound Detector	AE
L251	VP-LF390K0000	Coil, Sound Detector	AB
L301	RCILI0173TAZZ	Coil, H-Lin	AH
L501	VP-LF221K0000	Coil	AA
L701	RCILZ0043TAZZ	Coil	AB
L702	RCILF0005TAZZ	Coil	AB
L703	RCILZ0016TAZZ	Coil	AE
L801	RCILI0071TAZZ	Coil, 5.5MHz	AB
L802	VP-LF151K0000	Coil, Peaking	AB
L803	VP-LF391K0000	Coil, Peaking	AB
T201	RCILI0091TAZZ	Transformer, 1st Pix IF	AE
T301	RCILI0176TAZZ	Transformer, Sound IF	AE
T701	RTRNT0017TAZZ	Transformer, Horizontal Drive	AG
T702	RTRNF2023TAZZ	Transformer, Horizontal Flyback	AZ
T901	RTRNP0100TAZZ	Transformer, Power	AY

REF. NO.	NEW PART NAME	DESCRIPTION	CODE
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MISCELLANEOUS

	GCABA1539TASA	Cabinet, Front, (Red)	AW
	GCABA1539TASB	Cabinet, Front, (White)	AW
	GCABB1539TASA	Cabinet, Back, (Red)	AV
	GCABB1539TASB	Cabinet, Back, (White)	AV
	JKNBK1051CESA	Knob, Pull-On/Volume, Contrast	AF
	QANTR0011TAZZ	Antenna, Telescoping Monopole	AL
	VTUVT2-2C///	Tuner, VHF	BH
	VTUVT1-8C///	Tuner, UHF	BD
	QSLC-0001TAZZ	Channel Selector	BG
	QSOCN0604CEZZ	Socket, Power	AB
	QSOCN0502CEZZ	Socket, Volume, Contrast	AB
	QSOCN0403CEZZ	Socket, Sound	AB
	QSOCN0009TAZZ	Socket, Tuner Combine	AA
	QSOCB0002TAZZ	Socket, DC	AD
	QSOCV0701SEZZ	Socket, CRT	AC
	QPLGN0404CEZZ	Plug, Sound	AB
	QPLGN0505CEZZ	Plug, Volume, Contrast	AB
	QPLGN0603CEZZ	Plug, Power	AB
	QPLGN0016TAZZ	Plug, Tuner	AC
	QJAKA0001CEZZ	Jack, Earphbne	AC
F901	QFS-C1021TAZZ	Fuse, 1AT	AE
F902	QFS-C2521TAZZ	Fuse, 2.5AT	AF
F903	QFS-C2022TAZZ	Fuse, 2AT	AE
SW902	SW903	Switch, AC-DC/Change	AL

Printed Wiring Board

	DUNTK0674HA05	(DUNTK0674RA05, DUNTK0675RA05) Unit	CB
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